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1  *Do-File
2  *Title:      Change in Home Bias Due to Ghost Games in the NFL
3  *Authors:    Stephan Starke, Alexander Dilger & Lars Vischer
4  *Submitted:  Journal of Economics and Statistics
5  *Status:     04.06.2024
6  clear
7  cd "C:\Users\lvischer\sciebo\Forschung\Home Bias NFL\Journal of Economics and Statistics"
8
9  use NFLfinaldata.dta
10
11 *Table 1a & 1b
12 eststo clear
13 estpost sum h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
h_passes_complpercent a_passes_complpercent diff_passes_complpercent h_yards_pass a_yards_pass
diff_yards_pass h_passyards_ratio a_passyards_ratio diff_passyards_ratio h_pass_touch a_pass_touch
diff_pass_touch diff_interception diff_sacks diff_yards_sack diff_pass_rate diff_rushAtt
diff_rush_yards diff_rush_yards_att h_run_touch a_run_touch diff_run_touch h_penalties a_penalties
diff_penalties h_pen_yards a_pen_yards diff_pen_yards sum_penalties sum_pen_yards h_firstdown
a_firstdown diff_firstdown h_firstdown_rush a_firstdown_rush diff_firstdown_rush h_firstdown_pass
a_firstdown_pass diff_firstdown_pass h_firstdown_pen a_firstdown_pen diff_firstdown_pen
14 esttab using 2010-2023.rtf, cells("mean(fmt(2)) sd(fmt(2)) min(fmt(2)) max(fmt(2))") nomtitle
nonumber
15
16 keep if Yearnr >= 8 & Yearnr <= 14
17
18 eststo clear
19 estpost sum h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
h_passes_complpercent a_passes_complpercent diff_passes_complpercent h_yards_pass a_yards_pass
diff_yards_pass h_passyards_ratio a_passyards_ratio diff_passyards_ratio h_pass_touch a_pass_touch
diff_pass_touch diff_interception diff_sacks diff_yards_sack diff_pass_rate diff_rushAtt
diff_rush_yards diff_rush_yards_att h_run_touch a_run_touch diff_run_touch h_penalties a_penalties
diff_penalties h_pen_yards a_pen_yards diff_pen_yards sum_penalties sum_pen_yards h_firstdown
a_firstdown diff_firstdown h_firstdown_rush a_firstdown_rush diff_firstdown_rush h_firstdown_pass
a_firstdown_pass diff_firstdown_pass h_firstdown_pen a_firstdown_pen diff_firstdown_pen
20 esttab using 2017-2023.rtf, cells("mean(fmt(2)) sd(fmt(2)) min(fmt(2)) max(fmt(2))") nomtitle
nonumber
21
22 clear
23 use NFLmaindata3105.dta
24
25 keep if ghostgames01 == 1
26
27 eststo clear
28 estpost sum h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
h_passes_complpercent a_passes_complpercent diff_passes_complpercent h_yards_pass a_yards_pass
diff_yards_pass h_passyards_ratio a_passyards_ratio diff_passyards_ratio h_pass_touch a_pass_touch
diff_pass_touch diff_interception diff_sacks diff_yards_sack diff_pass_rate diff_rushAtt
diff_rush_yards diff_rush_yards_att h_run_touch a_run_touch diff_run_touch h_penalties a_penalties
diff_penalties h_pen_yards a_pen_yards diff_pen_yards sum_penalties sum_pen_yards h_firstdown
a_firstdown diff_firstdown h_firstdown_rush a_firstdown_rush diff_firstdown_rush h_firstdown_pass
a_firstdown_pass diff_firstdown_pass h_firstdown_pen a_firstdown_pen diff_firstdown_pen
29 esttab using ghostgames01.rtf, cells("mean(fmt(2)) sd(fmt(2)) min(fmt(2)) max(fmt(2))") nomtitle
nonumber
30
31 clear
32 use NFLmaindata3105.dta
33
34 keep if semighostgames01 == 1
35
36 eststo clear
37 estpost sum h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
h_passes_complpercent a_passes_complpercent diff_passes_complpercent h_yards_pass a_yards_pass
diff_yards_pass h_passyards_ratio a_passyards_ratio diff_passyards_ratio h_pass_touch a_pass_touch
diff_pass_touch diff_interception diff_sacks diff_yards_sack diff_pass_rate diff_rushAtt
diff_rush_yards diff_rush_yards_att h_run_touch a_run_touch diff_run_touch h_penalties a_penalties
diff_penalties h_pen_yards a_pen_yards diff_pen_yards sum_penalties sum_pen_yards h_firstdown
a_firstdown diff_firstdown h_firstdown_rush a_firstdown_rush diff_firstdown_rush h_firstdown_pass
a_firstdown_pass diff_firstdown_pass h_firstdown_pen a_firstdown_pen diff_firstdown_pen

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38  esttab using semighostgames01.rtf, cells("mean(fmt(2)) sd(fmt(2)) min(fmt(2)) max(fmt(2))")
    nomtitle nonumber
39
40  gen ghostgames01x = ghostgames01
41  replace ghostgames01x = . if semighostgames01 == 1
42
43  gen semighostgames01x = semighostgames01
44  replace semighostgames01x = . if ghostgames01 == 1
45
46  *Table 2
47  *Model1
48  estpost ttest h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
    diff_passes_complpercent diff_yards_pass diff_passyards_ratio diff_pass_touch diff_interception
    diff_sacks diff_yards_sack diff_pass_rate diff_rush_yards diff_rush_yards_att diff_run_touch
    diff_firstdown, by(ghostgames01x)
49  eststo Model1
50  *Model2
51  estpost ttest h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
    diff_passes_complpercent diff_yards_pass diff_passyards_ratio diff_pass_touch diff_interception
    diff_sacks diff_yards_sack diff_pass_rate diff_rush_yards diff_rush_yards_att diff_run_touch
    diff_firstdown, by(semighostgames01x)
52  eststo Model2
53  *Model3
54  estpost ttest h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
    diff_passes_complpercent diff_yards_pass diff_passyards_ratio diff_pass_touch diff_interception
    diff_sacks diff_yards_sack diff_pass_rate diff_rush_yards diff_rush_yards_att diff_run_touch
    diff_firstdown if inrange(Yearnr, 8, 14), by(ghostgames01x)
55  eststo Model3
56  *Model4
57  estpost ttest h_win h_points a_points diff_points sum_points diff_passes_compl diff_passes_attemp
    diff_passes_complpercent diff_yards_pass diff_passyards_ratio diff_pass_touch diff_interception
    diff_sacks diff_yards_sack diff_pass_rate diff_rush_yards diff_rush_yards_att diff_run_touch
    diff_firstdown if inrange(Yearnr, 8, 14), by(semighostgames01x)
58  eststo Model4
59  esttab Model1 Model2 Model3 Model4 using "results_final2.rtf", nonumber star(* 0.1 ** 0.05 ***
    0.01)
60
61  *Table 3
62  eststo clear
63  *Model1
64  estpost ttest h_passes_complpercent a_passes_complpercent h_yards_pass a_yards_pass
    h_passyards_ratio a_passyards_ratio h_pass_touch a_pass_touch h_run_touch a_run_touch h_firstdown
    a_firstdown, by(ghostgames01x)
65  eststo Model1
66  *Model2
67  estpost ttest h_passes_complpercent a_passes_complpercent h_yards_pass a_yards_pass
    h_passyards_ratio a_passyards_ratio h_pass_touch a_pass_touch h_run_touch a_run_touch h_firstdown
    a_firstdown, by(semighostgames01x)
68  eststo Model2
69  *Model3
70  estpost ttest h_passes_complpercent a_passes_complpercent h_yards_pass a_yards_pass
    h_passyards_ratio a_passyards_ratio h_pass_touch a_pass_touch h_run_touch a_run_touch h_firstdown
    a_firstdown if inrange(Yearnr, 8, 14), by(ghostgames01x)
71  eststo Model3
72  *Model4
73  estpost ttest h_passes_complpercent a_passes_complpercent h_yards_pass a_yards_pass
    h_passyards_ratio a_passyards_ratio h_pass_touch a_pass_touch h_run_touch a_run_touch h_firstdown
    a_firstdown if inrange(Yearnr, 8, 14), by(semighostgames01x)
74  eststo Model4
75  esttab Model1 Model2 Model3 Model4 using "results_final3.rtf", nonumber star(* 0.1 ** 0.05 ***
    0.01)
76
77  *Table 4
78  eststo clear
79  *Model1
80  estpost ttest h_firstdown a_firstdown h_firstdown_rush a_firstdown_rush h_firstdown_pass
    a_firstdown_pass h_firstdown_pen a_firstdown_pen, by(ghostgames01x)
81  eststo Model1

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82 *Model2
83 estpost ttest h_firstdown a_firstdown h_firstdown_rush a_firstdown_rush h_firstdown_pass
a_firstdown_pass h_firstdown_pen a_firstdown_pen, by(semighostgames01x)
84 eststo Model2
85 *Model3
86 estpost ttest h_firstdown a_firstdown h_firstdown_rush a_firstdown_rush h_firstdown_pass
a_firstdown_pass h_firstdown_pen a_firstdown_pen if inrange(Yearnr, 8, 14), by(ghostgames01x)
87 eststo Model3
88 *Model4
89 estpost ttest h_firstdown a_firstdown h_firstdown_rush a_firstdown_rush h_firstdown_pass
a_firstdown_pass h_firstdown_pen a_firstdown_pen if inrange(Yearnr, 8, 14), by(semighostgames01x)
90 eststo Model4
91 esttab Model1 Model2 Model3 Model4 using "results_final4.rtf", nonnumber star(* 0.1 ** 0.05 ***
0.01)
92
93 *Table 5
94 eststo clear
95 *Model1
96 estpost ttest h_penalties a_penalties diff_penalties h_pen_yards a_pen_yards diff_pen_yards
sum_penalties sum_pen_yards, by(ghostgames01x)
97 eststo Model1
98 *Model2
99 estpost ttest h_penalties a_penalties diff_penalties h_pen_yards a_pen_yards diff_pen_yards
sum_penalties sum_pen_yards, by(semighostgames01x)
100 eststo Model2
101 *Model3
102 estpost ttest h_penalties a_penalties diff_penalties h_pen_yards a_pen_yards diff_pen_yards
sum_penalties sum_pen_yards if inrange(Yearnr, 8, 14), by(ghostgames01x)
103 eststo Model3
104 *Model4
105 estpost ttest h_penalties a_penalties diff_penalties h_pen_yards a_pen_yards diff_pen_yards
sum_penalties sum_pen_yards if inrange(Yearnr, 8, 14), by(semighostgames01x)
106 eststo Model4
107 esttab Model1 Model2 Model3 Model4 using "results_final5.rtf", nonnumber star(* 0.1 ** 0.05 ***
0.01)
108
109 egen team_season_H = group(Home_Team Year)
110
111 *Table 6 Part 1
112 eststo clear
113 eststo: logit h_win ghostgames01 semighostgames01 diff_yards_pass diff_passyards_ratio
diff_passes_complpercent diff_run_touch diff_firstdown i.team_season_H, vce(cluster team_season_H)
114 eststo: reg diff_points ghostgames01 semighostgames01 diff_yards_pass diff_passyards_ratio
diff_passes_complpercent diff_run_touch diff_firstdown i.team_season_H, vce(cluster team_season_H)
115 esttab using "results_final61.rtf", p scalars(F r2)
116
117 *Table 7 Part 1
118 eststo clear
119 eststo: reg h_penalties ghostgames01 semighostgames01 h_points a_points i.team_season_H, vce(
cluster team_season_H)
120 eststo: reg diff_penalties ghostgames01 semighostgames01 h_points a_points i.team_season_H, vce(
cluster team_season_H)
121 esttab using "results_final71.rtf", p scalars(F r2)
122
123 keep if Yearnr >= 8 & Yearnr <= 14
124
125 *Table 6 Part 2
126 eststo clear
127 eststo: logit h_win ghostgames01 semighostgames01 diff_yards_pass diff_passyards_ratio
diff_passes_complpercent diff_run_touch diff_firstdown i.team_season_H, vce(cluster team_season_H)
128 eststo: reg diff_points ghostgames01 semighostgames01 diff_yards_pass diff_passyards_ratio
diff_passes_complpercent diff_run_touch diff_firstdown i.team_season_H, vce(cluster team_season_H)
129 esttab using "results_final62.rtf", p scalars(F r2)
130
131 *Table 7 Part 2
132 eststo clear
133 eststo: reg h_penalties ghostgames01 semighostgames01 h_points a_points i.team_season_H, vce(
cluster team_season_H)

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134 eststo: reg diff_penalties ghostgames01 semighostgames01 h_points a_points i.team_season_H, vce(  
cluster team_season_H)  
135 esttab using "results_final72.rtf", p scalars(F r2)  
136  
137 use NFLfinaldata.dta  
138  
139 export excel "NFL_Starke_Dilger_Vischer.xlsx", sheet("data") firstrow(variables) replace  
140  
141
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